

REMARKS

In the Claims:

Claims 14-18, 20-23, 27-31, 33-36, 46-49, 51-56, and 58-61 remain in this application. Claims 14-18, 20-23, 27, and 52 have been amended. Claims 19, 24-26, 32, 37-39, 46-49, 51, 57, and 62-64 have been canceled.

In the Office Action mailed October 20, 2004, the Examiner indicated that claims 52-61 would be allowable if rewritten or amended to overcome the rejections under 35 U.S.C. 112. Applicant has made amendments to overcome the rejections under 35 U.S.C. 112 in claims 52-56 and 58-61, as discussed below.

The other pending claims have also been amended to overcome the rejections under 35 U.S.C. 112 and to recite a substrate that includes a thin-core with a thickness between about 0.1 mm and 0.5 mm and at least four laminate layers, at least two of the laminate layers on a first side of the thin core and at least two of the laminate layers on a second side of the thin core, none of the laminate layers having a thickness greater than about 30 microns. Since the Examiner stated that the prior art fails to disclose or suggest these limitations, Applicant believes all pending claims are now in condition for allowance.

Because these amendments put all claims in condition for allowance and raise no new issues of patentability, Applicants request entry of this amendment and allowance of all pending claims.

Rejections Under 35 U.S.C. 112:

Claims 14-18, 20-23, 27-31, 33-36, 46-49, 51-56, and 58-61 were rejected under 35 U.S.C. 112 first and second paragraphs as failing to comply with the written description and

enablement requirements and as being indefinite. Each of these rejections was based on use of the terms “coreless” and/or “thin-core” in the claims.

The terms “coreless” and “thin-core” have been removed from the claims. The claims now recite that the substrate includes layers and the thicknesses of selected layers of the substrate.

Rejections Under 35 U.S.C. 103(a):

Claims 14-18, 20-23, 27-31, 33-36, 46-49, and 51 were rejected under 35 U.S.C. 103(a). Claims 14-18, 20-23, 27-31, and 33-36 have been amended to include limitations similar to those recited in claim 52 and identified as not being disclosed or suggested by the prior art. Applicant thus believes that claims 14-18, 20-23, 27-31, and 33-36 are now in condition for allowance.

Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

Respectfully submitted,

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